Lukas Martin

List of Publications by Year
in descending order

56 papers	1,375 citations	394421 19 h-index	377865 34 g-index
69 all docs	69 docs citations	69 times ranked	1987 citing authors

#	Article	IF	Citations
1	Analyzing Medical Data with Process Mining: A COVID-19 Case Study. Lecture Notes in Business Information Processing, 2022, , 39-44.	1.0	3
2	Inhibition of Macrophage Migration Inhibitory Factor Activity Attenuates Haemorrhagic Shock-Induced Multiple Organ Dysfunction in Rats. Frontiers in Immunology, 2022, 13, 886421.	4.8	5
3	Theranostic Trigger-Responsive Carbon Monoxide-Generating Microbubbles. Small, 2022, 18, e2200924.	10.0	11
4	Incremental Parameter Estimation of Stochastic State-Based Models. , 2021, , .		2
5	Increase of urinary TIMP-2 and IGFBP7 as potential predictor of acute kidney injury requiring renal replacement therapy and patients' outcome following complex endovascular and open thoracic abdominal aortic aneurysm surgery – a prospective observational study. Vasa - European Journal of Vascular Medicine, 2021, 50, 101-109.	1.4	2
6	Development and validation of a reinforcement learning algorithm to dynamically optimize mechanical ventilation in critical care. Npj Digital Medicine, 2021, 4, 32.	10.9	47
7	Prognostic Value of Bioactive Adrenomedullin in Critically Ill Patients with COVID-19 in Germany: An Observational Cohort Study. Journal of Clinical Medicine, 2021, 10, 1667.	2.4	15
8	Evo-RL. , 2021, , .		10
9	A Synthetic Peptide Designed to Neutralize Lipopolysaccharides Attenuates Metaflammation and Diet-Induced Metabolic Derangements in Mice. Frontiers in Immunology, 2021, 12, 701275.	4.8	7
10	The Role of Ribonuclease 1 and Ribonuclease Inhibitor 1 in Acute Kidney Injury after Open and Endovascular Thoracoabdominal Aortic Aneurysm Repair. Journal of Clinical Medicine, 2020, 9, 3292.	2.4	5
11	RvE1 Attenuates Polymicrobial Sepsis-Induced Cardiac Dysfunction and Enhances Bacterial Clearance. Frontiers in Immunology, 2020, 11, 2080.	4.8	23
12	Editorial: Translational Insights Into Mechanisms and Therapy of Organ Dysfunction in Sepsis and Trauma. Frontiers in Immunology, 2020, 11, 1987.	4.8	4
13	A Machine Learning Approach for the Classification of Disease Risks in Time Series. , 2020, , .		3
14	Short Exposure to Ethanol Diminishes Caspase-1 and ASC Activation in Human HepG2 Cells In Vitro. International Journal of Molecular Sciences, 2020, 21, 3196.	4.1	12
15	Perception of the 2020 SARS-CoV-2 pandemic among medical professionals in Germany: results from a nationwide online survey. Emerging Microbes and Infections, 2020, 9, 1590-1599.	6.5	48
16	SLPI - a Biomarker of Acute Kidney Injury after Open and Endovascular Thoracoabdominal Aortic Aneurysm (TAAA) Repair. Scientific Reports, 2020, 10, 3453.	3.3	17
17	Ribonuclease 1 attenuates septic cardiomyopathy and cardiac apoptosis in a murine model of polymicrobial sepsis. JCI Insight, 2020, 5, .	5.0	34
18	Telemedicine in Germany During the COVID-19 Pandemic: Multi-Professional National Survey. Journal of Medical Internet Research, 2020, 22, e19745.	4.3	59

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19	Effects of the Non-Neutralizing Humanized Monoclonal Anti-Adrenomedullin Antibody Adrecizumab on Hemodynamic and Renal Injury in a Porcine Two-Hit Model. Shock, 2020, 54, 810-818.	2.1	6
20	A Novel NLP-FUZZY System Prototype for Information Extraction from Medical Guidelines. , 2019, , .		14
21	Machine Learning in future intensive careâ€"Classification of stochastic Petri Nets via continuous-time Markov chains. , 2019, , 259-273.		1
22	Club cell protein 16 in sera from trauma patients modulates neutrophil migration and functionality via CXCR1 and CXCR2. Molecular Medicine, 2019, 25, 45.	4.4	6
23	Biomechanical assessment of remote and postinfarction scar remodeling following myocardial infarction. Scientific Reports, 2019, 9, 16744.	3.3	17
24	Bruton's Tyrosine Kinase Inhibition Attenuates the Cardiac Dysfunction Caused by Cecal Ligation and Puncture in Mice. Frontiers in Immunology, 2019, 10, 2129.	4.8	31
25	Response. Chest, 2019, 156, 636-637.	0.8	0
26	Likelihood-Based Adaptive Learning in Stochastic State-Based Models. IEEE Signal Processing Letters, 2019, 26, 1031-1035.	3.6	1
27	Geriatric Polytraumaâ€"Cardiovascular and Immunologic Response in a Murine Two-Hit Model of Trauma. Journal of Surgical Research, 2019, 241, 87-94.	1.6	4
28	Response. Chest, 2019, 155, 647-648.	0.8	0
29	Effect of Long-Term Polytrauma on Ventilator-Induced Diaphragmatic Dysfunction in a Piglet Model. Shock, 2019, 52, 443-448.	2.1	2
30	The Septic Heart. Chest, 2019, 155, 427-437.	0.8	195
31	Comparison of urine and serum neutrophil gelatinase-associated lipocalin after open and endovascular thoraco-abdominal aortic surgery and their meaning as indicators of acute kidney injury. Vasa - European Journal of Vascular Medicine, 2019, 48, 79-87.	1.4	6
32	A Deep Learning Approach for Managing Medical Consumable Materials in Intensive Care Units via Convolutional Neural Networks: Technical Proof-of-Concept Study. JMIR Medical Informatics, 2019, 7, e14806.	2.6	8
33	Novel Synthetic, Host-defense Peptide Protects Against Organ Injury/Dysfunction in a Rat Model of Severe Hemorrhagic Shock. Annals of Surgery, 2018, 268, 348-356.	4.2	18
34	Annexin A1 attenuates microvascular complications through restoration of Akt signalling in a murine model of type 1 diabetes. Diabetologia, 2018, 61, 482-495.	6.3	48
35	Mitochondrial DNA in Acute Kidney Injury: Chicken or Egg?. Shock, 2018, 49, 352-353.	2.1	5
36	The Antimalarial Drug Artesunate Attenuates Cardiac Injury in A Rodent Model of Myocardial Infarction. Shock, 2018, 49, 675-681.	2.1	17

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37	An Adaptive Learning Approach To Parameter Estimation For Hybrid Petri Nets In Systems Biology. , 2018, , .		3
38	The acute respiratory distress syndrome: pathophysiology, current clinical practice, and emerging therapies. Expert Review of Respiratory Medicine, 2018, 12, 1021-1029.	2.5	42
39	Linagliptin Attenuates the Cardiac Dysfunction Associated With Experimental Sepsis in Mice With Pre-existing Type 2 Diabetes by Inhibiting NF-κB. Frontiers in Immunology, 2018, 9, 2996.	4.8	30
40	Heparan Sulfate Induces Necroptosis in Murine Cardiomyocytes: A Medical-In silico Approach Combining In vitro Experiments and Machine Learning. Frontiers in Immunology, 2018, 9, 393.	4.8	8
41	Reduced post-operative DPP4 activity associated with worse patient outcome after cardiac surgery. Scientific Reports, 2018, 8, 11820.	3.3	10
42	Urine neutrophil gelatinase–associated lipocalin predicts outcome and renal failure in open and endovascular thoracic abdominal aortic aneurysm surgery. Scientific Reports, 2018, 8, 12676.	3.3	10
43	Plasma adrenomedullin in critically ill patients with sepsis after major surgery: A pilot study. Journal of Critical Care, 2017, 38, 68-72.	2.2	25
44	Coupling killing to neutralization: combined therapy with ceftriaxone/Pep19-2.5 counteracts sepsis in rabbits. Experimental and Molecular Medicine, 2017, 49, e345-e345.	7.7	17
45	Macrophage Migration Inhibitory Factor Predicts Outcome in Complex Aortic Surgery. International Journal of Molecular Sciences, 2017, 18, 2374.	4.1	5
46	The β-d-Endoglucuronidase Heparanase Is a Danger Molecule That Drives Systemic Inflammation and Correlates with Clinical Course after Open and Endovascular Thoracoabdominal Aortic Aneurysm Repair: Lessons Learnt from Mice and Men. Frontiers in Immunology, 2017, 8, 681.	4.8	13
47	The Human Host Defense Ribonucleases 1, 3 and 7 Are Elevated in Patients with Sepsis after Major Surgery—A Pilot Study. International Journal of Molecular Sciences, 2016, 17, 294.	4.1	20
48	The Endothelial Glycocalyx: New Diagnostic and Therapeutic Approaches in Sepsis. BioMed Research International, 2016, 2016, 1-8.	1.9	82
49	The Ribonuclease A Superfamily in Humans: Canonical RNases as the Buttress of Innate Immunity. International Journal of Molecular Sciences, 2016, 17, 1278.	4.1	125
50	The synthetic antimicrobial peptide 19-2.5 attenuates septic cardiomyopathy and prevents down-regulation of SERCA2 in polymicrobial sepsis. Scientific Reports, 2016, 6, 37277.	3.3	29
51	The synthetic antimicrobial peptide 19-2.5 attenuates mitochondrial dysfunction in cardiomyocytes stimulated with human sepsis serum. Innate Immunity, 2016, 22, 612-619.	2.4	10
52	Soluble Heparan Sulfate in Serum of Septic Shock Patients Induces Mitochondrial Dysfunction in Murine Cardiomyocytes. Shock, 2015, 44, 569-577.	2.1	32
53	Antimicrobial Peptides in Human Sepsis. Frontiers in Immunology, 2015, 6, 404.	4.8	85
54	The Synthetic Antimicrobial Peptide 19-2.5 Interacts with Heparanase and Heparan Sulfate in Murine and Human Sepsis. PLoS ONE, 2015, 10, e0143583.	2.5	39

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55	Peptide 19-2.5 Inhibits Heparan Sulfate-Triggered Inflammation in Murine Cardiomyocytes Stimulated with Human Sepsis Serum. PLoS ONE, 2015, 10, e0127584.	2.5	31
56	The anti-inflammatory effect of the synthetic antimicrobial peptide 19-2.5 in a murine sepsis model: a prospective randomized study. Critical Care, 2013, 17, R3.	5.8	41